

\$		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	22222222 22222222 22222222 22222222 2222		NN	
		\$				
	1111111	\$\$ \$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$				

16-Sep-1984 00:32:58 14-Sep-1984 12:15:40 STACLINT VAX-11 Bliss-32 V4.0-742 Par DISK\$VMSMASTER:[DCL.SRC]STACLINT.B32;1 MODULE staclint (IDENT='V04-000',
ADDRESSING_MODE(NONEXTERNAL=LONG_RELATIVE,
EXTERNAL=GENERAL)) = BEGIN COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED. 23456789012345678901234567890123446678901234567 THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED. THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION. DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. FACILITY: Stand-alone command language interface routines ABSTRACT: These routines are used to enable a stand-alone image to obtain the command parameters and qualifiers from the command language interpreter. **ENVIRONMENT:** VAX/VMS operating system. unprivileged user mode, AUTHOR: Peter George, October 1981 Modified by: PCG0006 Peter George 1 Include INTDEF instead of CLIDEF. V03-006 PCG0006 17-feb-1983 PCG0005 Peter George 14-Dec-1982 Allocate local descriptor for command string. V03-005 PCG0005 V03-004 PCG0004 Peter George 29-Nov-1982 Add argument to str\$analyze_sdesc call. V03-003 PCG0003 02-Nov-1982 Peter George

STACLINT VO4-000		E 1 16-Sep-1984 00:32:58 VAX-11 Bliss-32 V4.0-742 Page 2 14-Sep-1984 12:15:40 DISK\$VMSMASTER:[DCL.SRC]STACLINT.B32;1 (1)
: 58 : 59	0058 1 0059 1	Add CLI\$NEXT_QUAL. Fix optional length assignment in CLI\$GET_VALUE. Analyze input string descriptors.
61	0058 1 0059 1 0060 1 0061 1 0062 1	V03-002 PCG0002 Peter George 18-Oct-1982 Add prompt argument to CLISDCL_PARSE.
64 65 66 67 68 69	0063 1 0064 1 0065 1 0067 1 0068 1 0069 1	V03-001 PCG0001 Peter George 17-Sep-1982 Use INT data structure. Add prompt and continuation routines to CLI\$DCL_PARSE. Add value address to CLI\$GET_VALUE. Add user argument to CLI\$DISPATCH.
71 72	0071 1 0072 1	Include files
74	0074 1	LIBRARY 'SYS\$LIBRARY:STARLET';
76	0076 1	REQUIRE 'SYS\$LIBRARY:UTILDEF': ! Common VMS BLISS definitions
78	0253 1	REQUIRE 'LIBS: INTDEF': ! Interface definitions

```
STACLINT
                                                                                                                                                                                16-Sep-1984 00:32:58
14-Sep-1984 12:15:40
                                                                                                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[DCL.SRC]STACLINT.B32;1
       Table of contents
                                            FORWARD ROUTINE
cliSpresent,
cliSqet_value,
cliSdcl_parse,
cliSdispatch,
                                                                                                                                                                                     Determine if entity present Get value of entity
                                                                                                                                                                                     Parse a command line
                                                                                                                                                                                    Dispatch to user processing routine
Signal any unprocessed modifiers
Get next qualifier
                                                                             clisend_parse.
clisnext_qual;
                                                                EXTERNAL ROUTINE dcl$present, dcl$qetvalue, dcl$dclparse, dcl$dispatch,
                                                                             dcl$nextqual,
                                                                             dcl$endparse,
                                                                            str$analyze_sdesc,
lib$get_vm,
lib$free_vm,
                                                                                                                                                                                     Analyze input descriptor 
Allocate virtual memory
                                                                                                                                                                                 Deallocate virtual memory
Copy to any class string
                                                                             str$copy_dx;
                                           0304
0305
0306
0307
0308
0309
0310
0311
0312
0313
0314
0315
                                                                       External message definitions
                                                              EXTERNAL LITERAL

clis_nocomd,

clis_concat,

clis_comma,

clis_present,

clis_negated,

clis_locpres,

clis_locneg,

clis_defaulted,

clis_absent;
                                                                                                                                                                                   Prompt was ctrl/z-ed
Value is concatenated
Value is comma separated
Entity is explicitly globally present
Entity is explicitly not globally present
Entity is explicitly locally present
Entity is explicitly not locally present
Entity is implicitly present
Entity is implicitly present
Entity is implicitly not present
       112
113
114
115
       116
```

```
STACLINT
                                                                                                                                                                                VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[DCL.SRC]STACLINT.B32;1
     GLOBAL ROUTINE clispresent (name) =
                                                                Determine if an entity is present on the command line.
                                                    Inputs:
                                                               name = Address of entity name descriptor
                                                    Outputs:
                                                                routine value = True if present, else false.
                                                BEGIN
                                                LOCAL
                                                       req_desc : BBLOCK [cli$c_reqdesc], ! Request descriptor block rpw : BBLOCK [cli$c_workarea],! Result parse work area req_flags : BITVECTOR [32]; ! Request flags array
      140
141
142
143
144
146
146
                                               CH$FILL@, cli$c_reqdesc, req_desc);
req_desc [int_b_type] = cli$k_present;
req_desc [int_l_getvm] = lib$get_vm;
req_desc [int_l_freevm] = lib$free_vm;
                                                                                                                                                   Zero request descriptor block
                                                                                                                                                   Set request type
Set address of get vm routine
Set address of free vm routine
                                                    Set entity name
      148
                                               str$analyze_sdesc (.name, req_desc [int_w_entlen], req_desc [int_l_entaddr]);
RETURN (dcl$present (req_desc, rpw, req_flags));! Call DCL utility
      150
                                                                                                                                                    .TITLE
                                                                                                                                                                   STACLINT
                                                                                                                                                                  DCL$PRESENT, DCL$GETVALUE
DCL$DCLPARSE, DCL$DISPATCH
DCL$NEXTQUAL, DCL$ENDPARSE
STR$ANALYZE_SDESC
LIB$GET_VM, LIB$FREE_VM
STR$COPY_DX, CLI$_NOTOMD
CLI$_CONTAT, CLI$_COMMA
CLI$_PRESENT, CLI$_NEGATED
CLI$_LOCPRES, CLI$_LOCNEG
CLI$_DEFAULTED, CLI$_ABSENT
                                                                                                                                                     .EXTRN
                                                                                                                                                    .EXTRN
                                                                                                                                                    .EXTRN
                                                                                                                                                    .EXTRN
                                                                                                                                                     .EXTRN
                                                                                                                                                    .EXTRN
                                                                                                                                                    .EXTRN
                                                                                                                                                     .EXTRN
                                                                                                                                                    .EXTRN
                                                                                                                                                                   SCODES, NOWRT, 2
                                                                                                                                                    .PSECT
                                                                                                                                                                   CLISPRESENT, Save R2,R3,R4,R5
-160(SP), SP
W0, (SP), W0, W28, REQ_DESC
                                                                                                                       00000
00002
00007
                                                                                                              003C
9E
2C
                                                                                                                                                                                                                                                                0317
                                                                                                                                                     .ENTRY
                                                                                                                                                   MOVAB
MOVC5
                                                                                            FF60
                                                                                                          00
AD
8F
00
                      10
                                                  00
                                                                                                                                                                                                                                                                0339
                                                                                                                        0000C
0000E
00013
                                                                                                                  90
9E
9E
                                                                                                                                                                   #80, REQ DESC
LIBSGET VM, REQ DESC+16
LIBSFREE_VM, REQ_DESC+20
                                                                              AD
AD
                                                                                                                                                    MOVB
                                                                                                                                                    MOVAB
                                                                                                                                                    MOVAB
```

STACLINT					742 RCJSTACLINT.B32;1 (3)			
	0000000G	00	FO EC 04	AD ACCOSE ACCOSE ACCOSE	9F 00026 9F 00026 9D 00029 FB 0002C DD 00033	PUSHAB REPUSHAB REPUSHAB REPUSHAB RECALLS #3	Q_DESC+12 Q_DESC+8 AME 3. STR\$ANALYZE_SDESC	0346
	000000006	00	08 E4	AE AD 03	9F 00035 9F 00038 FB 0003B 04 00042	PUSHAB REPUSHAB RET	DESC DCLSPRESENT	0348

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 0000

```
STACLINT
                                                                                                                                   VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[DCL.SRC]STACLINT.B32;1
                                    GLOBAL ROUTINE clisget_value (name, retdesc, retlength) =
    This routine is called to obtain the next value associated with a named entity on the command line.
                                       Inputs:
                                               name = Address of entity name descriptor
retdesc = Address of a return buffer descriptor
retlength = Address of a longword to return the value
                                                                  length in
                                       Outputs:
                                                True = A value was returned (there may be more).
                                                false = There is no more values associated with entity.
                                                All other errors are signaled.
                                   BEGIN
                                          retdesc : REF BBLOCK:
                                   BUILTIN
                                          NULLPARAMETER:
                                   LOCAL
                                         req_desc : BBLOCK [cli$c_reqdesc], ! Request descriptor to rpw : BBLOCK [cli$c_workarea],! Result parse work as req_flags : BITVECTOR [32], ! Request flags array
                                                                                                  Request descriptor block
                                                                                                  Result parse work area
                                         copy status, status;
                                   CH$fILL(0, cli$c_reqdesc, req_desc);
req_desc [int_b_type] = cli$k_getvalue;
req_desc [int_l_getvm] = lib$qet_vm;
req_desc [int_l_freevm] = lib$free_vm;
                                                                                                              Zero request descriptor block
                                                                                                           Set request type

! Set address of get vm routine

! Set address of free vm routine
                        0391
                                      Set entity name
                        0394
                                   str$analyze_sdesc (.name, req_desc [int_w_entlen], req_desc [int_l_entaddr]);
status = dcl$getvalue (req_desc, rpw, req_flags);! Call DCL utility
                        0395
                        0396
0397
                        0398
                                      If return length was requested, then find it now.
                        0399
                        0400
0401
0402
0403
                                    IF NOT NULLPARAMETER (3)
                                                                                                              If return length requested
                                        THEN (.retlength) <0.16> =
                                                                                                              then original estimate
                                                            .req_desc [int_w_retlen];
                                    Copy result into return desc
```

STACL INT V04-000 209 210 211 212 213 214 215 216 217 218 219 220 221	0	408 2 IF NOT NULL	AL temp : BBL Sanalyze_sdes temp [ds .temp LSSU .r THEN (.retlen			ignal an		Page 7 32;1 (4)
	10	00	6E	58 CE 9E 0	0009 000E 0013	ווע כטעטו	LISGET_VALUE, Save R2,R3,R4,R5,R6 TR\$ANALYZE_SDESC, R6 168(SP), SP 0, (SP), #0, #28, REQ_DESC	0349
		-	AD 000000 B AD 000000	00G 00 9E 0 00G 00 9E 0 F0 AD 9F 0 EC AD 9F 0 04 AC DD 0 03 FB 0	001A 0022 002A 002D	ALLS #	81, REQ_DESC IB\$GET_VM, REQ_DESC+16 IB\$FREE_VM, REQ_DESC+20 EQ_DESC+12 EQ_DESC+8 AME 3, STR\$ANALYZE_SDESC	0387 0388 0389 0394
		0000000	06 00 52 03	10 AE 9F 06 E4 AD 9F 06 03 FB 06 50 DO 06 6C 91 06	003R F	ALLS MINOS RICHARD RIC	PW EQ_DESC 3. DCL\$GETVALUE 0. STATUS AP). #3 \$ 2(AP)	0400
		0000000	06 00 09	08 AC DD 0	004D 1 0050 E 0052 N 0057 1\$: F	IOVW RIVUSHAB RIVUSHL RIVUSHL RIVUSHL RIVUSHL RIVUSHL	EQ_DESC+8, aRETLENGTH EQ_DESC+8 ETDESC 2, STR\$COPY_DX OPY_STATUS, 2\$ OPY_STATUS 1, EIB\$SIGNAL AP), #3	0402 0405
		0000000	0G 00 03	50 DD 00 01 FB 00 6C 91 00 1F 1F 00	0064 0067 0069 0070 2\$: 0075	MPB (ALLS W	OPY-STATUS 1, EIB\$SIGNAL AP), #3 \$	0406 0408
				08 AE 9F 0	0078 B 007A P 007D P 0080 P	USHAB TI	\$MP+4 EMP ETDESC	0412
04	AE	08 BC 0	66 10 C BC	00 ED 00 05 1B 00 04 AE BO 00	0086 0080 E	MPZV MI BLEQU 3:	3. STR\$ANALYZE_SDESC 0. #16. aretdesc. temp \$ EMP. aretlength	0413 0414

STACLINT

VAX-11 Bliss-32 V4.0-742 Page 8 DISK\$VMSMASTER:[DCL.SRC]STACLINT.B32;1 (4)

50

STATUS, RO

: 0417

: Routine Size: 152 bytes, Routine Base: \$CODE\$ + 0043

```
STACLINT
                                                                                                                             VAX-11 Bliss-32 V4.0-742 Par DISKSVMSMASTER:[DCL.SRCJSTACLINT.B32;1
                                  GLOBAL ROUTINE clisdcl parse (command, tables, promptrtn, continctn, prompt) =
This routine can be called to parse a command line.
                                     Inputs:
                                              command = address of descriptor of command string
                                              tables = address of command tables
                                              promptrtn = address of user missing parameter prompt routine
                                              continrtn = address of user line continuation routine
                                              prompt = address of user prompt string descriptor
                                     Outputs:
                                             The command is parsed and the command work area is initialized.
                                  BEGIN
                                  BUILTIN
                                        NULLPARAMETER:
                                  LITERAL
                                        elements = 4:
                      0446
0447
0448
0449
0451
0453
0453
0453
0453
0453
0453
0463
0464
0468
0467
0473
0473
                                  LOCAL
                                       command_desc : BBLOCK [dsc$c s bln],
rtnlist : BBLOCK [4*(elements+1)],
req_desc : BBLOCK [cli$c_reqdesc],
rpw : BBLOCK [cli$c_workarea],
req_flags : BITVECTOR [32];
                                                                                                         Local command descriptor Routine list
                                                                                                         Request descriptor block
                                                                                                         Result parse work area
                                                                                                         Request flags array
                                  CH$fILL(0, cli$c_reqdesc, req_desc);
req_desc [int_b_type] = cli$k_dclparse;
req_desc [int_l_getvm] = lib$get_vm;
req_desc [int_l_freevm] = lib$free_vm;
                                                                                                         Zero request descriptor block
                                                                                                        Set request type
Set address of get vm routine
                                                                                                         Set address of free vm routine
                                  IF NOT NULLPARAMETER(1)
THEN BEGIN
                                                                                                      ! Set command line descriptor
                                             str$analyze_sdesc (.command, command_desc [dsc$w_length], _____command_desc [dsc$a_pointer]);
                                             req_desc [int_l_entaddr] = command_desc;
                                  req_desc [int_l_tables] = .tables;
                                                                                                      ! Set address of command tables
                                  IF NOT NULLPARAMETER(3) OR NOT NULLPARAMETER(4) ! If prompt or continue routine
                                       THEN BEGIN
                                             CHSFILL(0, 4*(elements+1), rtnlist);
rtnlist [int | listlen] = elements;
req_desc [int [ list] = rtnlist;
                                                                                                        Zero the list
                                                                                                         Set number of elements in list
                                                                                                        And connect it
```

NOT NULLPARAMETER (3)

STACLINT VO4-000	M 1 16-Sep-1984 00:32:58 VAX-11 Bliss-32 V4.0-742 Page 10 14-Sep-1984 12:15:40 DISK\$VM\$MASTER:[DCL.SRCJSTACLINT.B32;1 (5)
280 281 282 283 284 285 286 287 288	0476 2 THEN rtnlist [int promptrtn] = .promptrtn; ! Set address of prompt routine 0477 2 IF NOT NULLPARAMETER(4) 0478 2 THEN rtnlist [int continrtn] = .continrtn; ! Set address of continue routine 0479 2 IF NOT NULLPARAMETER(5) 0480 2 THEN str\$analyze_sdesc (.prompt, rtnlist [int_w_pmptlen], 0481 2 0482 2 0483 2 RETURN (dcl\$dclparse (req_desc, rpw, req_flags));! Call DCL utility 0484 1 END:
287	0483 2 RETURN (dcl\$dclparse (req_desc, rpw, req_flags));! Call DCL utility 0484 1 END;

10	00		56 5E 6E	000000006 FF44 C8	00 CE 00	9E 9E 2C	00000 00002 00009 0000E 00013		ENTRY MOVAB MOVAB MOVC5	CLISDCL PARSE, Save R2,R3,R4,R5,R6 STR\$ANALYZE SDESC, R6 -188(SP), SP #0, (SP), #0, #28, REQ_DESC	0419
		C8 D8 DC	AD AD	000000006 000000006	AD 8F 00 6C 16 AC	90 9E 95 13	00015 0001A 00022 0002A 0002C		MOVB MOVAB TSTB BEQL TSTL	#83, REQ_DESC LIB\$GET_VM, REQ_DESC+16 LIB\$FREE_VM, REQ_DESC+20 (AP) 1\$ 4(AP)	0455 0456 0457 0459
				F C F 8 04	AD AD	05 13 9f 9f 00	00033		BEQL PUSHAB PUSHAB	1\$ COMMAND_DESC+4 COMMAND_DESC	0462 0461
		04	AD AD 03	F 8 08	AC 03 AC 6C 05	FB 9E DO 91	00039 0003C 0003F 00044 00049	18:	PUSHL CALLS MOVAB MOVL CMPB BLSSU	#3, STR\$ANALYZE_SDESC COMMAND_DESC, REQ_DESC+12 TABLES, REQ_DESC+4 (AP), #3 2\$	0463 0466 0468
			04	0c 10	AC 0A 6C 15	D5 12 91 1F	0004E 00051 00053 00056 00058	2\$:	TSTL BNEQ CMPB BLSSU TSTL	12(AP) 3\$ (AP), #4 4\$ 16(AP)	
14	00		6E		AC 10 00	13 20	0005B	38:	BEQL MOVC5	4\$ #0, (SP), #0, #20, RTNLIST	0470
		E4 E0	AD O3	E4	AD O4 AD 6C OA	00 9E 91 1F	00062 00064 00068 0006D 00070	48:	MOVL MOVAB CMPB BLSSU	#4. RTNLIST RTNLIST, REQ_DESC+24 (AP). #3 5\$	0471 0472 0475
		E8	AD	0C	AC OS AC 6C	D5 13 D0 91	0006D 00070 00072 00075 00077		TSTL BEQL MOVL	58 12(AP) 58 PROMPTRIN, RINLIST+4	0476 0477
			04	10	OA AC O5	91 16 05	0007C 0007F 00081 00084	58:	CMPB BLSSU TSTL	(AP), #4 6\$ 16(AP)	0477
		EC	AD 05	10	05 AC 6C 11 AC	15 00 91 1F 05	00084 00086 0008B 0008E 00090	6\$:	BEQL MOVL CMPB BLSSU TSTL	6\$ CONTINRIN, RINLIST+8 (AP), #5 7\$ 20(AP)	0478 0479

STACLINT VO4-000					N 1 16-Sep 14-Sep	-1984 00:32 -1984 12:15	:58 :40	VAX-11 Bliss-32 V4.0-742 Page 11 DISK\$VMSMASTER:[DCL.SRC]STACLINT.B32;1 (5)		
000000	66 000G 00	F 4 F 0 14 08 C 8	AD AC OSE AD OSE AD OSE AD	13 0009 9F 0009 9F 0009 DD 0009 FB 000A 9F 000A 9F 000A FB 000A	5	BEQL PUSHAB PUSHA CALLS PUSHL PUSHAB PUSHAB CALLS RET	SP	T+16 T+12 R\$ANALYZE_SDESC SC L\$DCLPARSE	0481 0480 0483	

; Routine Size: 177 bytes. Routine Base: \$CODE\$ + 00DB

```
291234567890123456789011234567890123456
                                       GLOBAL ROUTINE clisdispatch (argument) =
                        0486
0487
0488
0490
0491
0493
0494
0496
0498
0502
0503
0505
                                                     This routine can be called to dispatch to any verb processing routines if the command has the ROUTINE attribute.
                                           Inputs:
                                                      argument = address of user supplied argument to his own routine
                                           Outputs:
                                                      The verb routine is called (if any).
                                                      The status passed back from the routine is returned in RO.
                                                      If no routine is specified, success is returned.
                                       BEGIN
                        0506
0507
0508
0509
0510
0511
0512
                                       BUILTIN
                                              NULLPARAMETER:
                                       LOCAL
                                              req_desc : BBLOCK [cli$c_reqdesc], ! Request descriptor bloc
rpw : BBLOCK [cli$c_workarea],! Result parse work area
req_flags : BITVECTOR [32]; ! Request flags array
                                                                                                                    Request descriptor block
                                      CH$FILL(0, cli$c_reqdesc, req_desc);
req_desc [int_b_type] = cli$k_dispatch;
req_desc [int_l_getvm] = lib$get_vm;
req_desc [int_l_freevm] = lib$free_vm;
If NOT NULLPARAMETER (1)
                        0514
0515
                                                                                                                                   Zero request descriptor block
                                                                                                                                  Set request type
Set address of get vm routine
Set address of free vm routine
                        0516
                        0517
0518
                                       THEN req desc [int | entaddr] = .argument; ! Set address of user argument RETURN (dcl$dispatch (req_desc, rpw, req_flags));! Call callback utility
                        0519
                        0520
0521
                                       END:
                                                                                                003C 00000
9E 00002
2C 00007
                                                                                                                                                  CLISDISPATCH, Save R2,R3,R4,R5
-160(SP), SP
#0, (SP), #0, #28, REQ_DESC
                                                                                                                                                                                                                                       0485
                                                                                                                                    .ENTRY
                                                                   SE
6E
                                                                                             CE
                                                                                                                                    MOVAB
                                                                                FF 60
               10
                                         00
                                                                                                                                                                                                                                       0514
                                                                                                                                    MOVC5
                                                                                                          0000C
                                                                                            8F
00
00
6C
                                                                                                                                                 #84, REQ DESC
LIBSGET VM, REQ DESC+16
LIBSFREE_VM, REQ_DESC+20
(AP)
                                                                                                                                                                                                                                       0515
0516
0517
                                                                   AD
AD
                                                                                                    90
9E
95
13
                                                                                                          0000E
                                                                                                                                    MOVB
                                                                                                         00013
0001B
00023
00025
00027
                                                                        00000000G
                                                                                                                                    MOVAB
                                                                                                                                    MOVAB
                                                                                                                                                                                                                                       0518
                                                                                                                                   TSTB
                                                                                                                                   BEQL
                                                                                                                                                  4(AP)
                                                                                                   D5
                                                                                   04
                                                                                             AC
OS
AC
SE
AD
                                                                                                                                    TSTL
                                                                                                                                    BEQL
                                                                                                         00020
00031
00033
00036
                                                                                                    00
00
9F
9F
                                                                                                                                                                                                                                       0519
                                                          FO
                                                                   AD
                                                                                   04
                                                                                                                                    MOVL
                                                                                                                                                  ARGUMENT, REQ_DESC+12
                                                                                                                    15:
                                                                                                                                    PUSHL
                                                                                   08
E4
                                                                                                                                                  RPW
                                                                                                                                    PUSHAB
```

REQ_DESC

BAHZUP

16-Sep-1984 00:32:58 14-Sep-1984 12:15:40

VAX-11 Bliss-32 V4.0-742 Par DISK\$VMSMASTER:[DCL.SRC]STACLINT.B32;1

STACLINT

STACLINT

C 2 16-Sep-1984 00:32:58 14-Sep-1984 12:15:40

VAX-11 Bliss-32 V4.0-742 Page 13 DISK\$VMSMASTER:[DCL.SRC]STACLINT.B32;1 (6)

00000000G 00

03 FB 00039 04 00040 CALLS #3, DCL\$DISPATCH

: 0521

; Routine Size: 65 bytes, Routine Base: \$CODE\$ + 018C

STACLINT VO4-000							D 2 16-Se 14-Se	p-1984 00:32 p-1984 12:15	2:58	VAX-11 Bliss-32 V4.0-742 Pa DISK\$VMSMASTER:[DCL.SRC]STACLINT.B32;1	ge 14 (7)
329 329 329 331 3333 3345 3345 3345 3345 3346 3346 3346	0522 0523 0524 0526 0527 0527 0528 0529 0531 0533 0533 0533 0533 0533 0533 0534 0534 0544 0544 0544 0544 0544 0544 0544 0544 0544 0544 0544 0544 0544 0555	Inputs Outputs BEGIN LOCAL req rpw req	This round in the community of a section of the community of a section of the community of	BBLOCK [clisted] BBLOCK [clisted] BBLOCK [clisted] BITVECTOR [3] [absact] = [interpretation of the color	ed writing control of the control of	mman ilit	the user t checks d line we d. Red	has complete that all qua re processed quest descrip tult parse wo quest flags a	otor blook area	descriptor block f get vm routine f free vm routine	
10		00	F4 /	E FF60 E E4 AD 00000000G AD 00000000G	CE	9E 2C 9E 9E	00000 00002 00007 0000C 0000E 00016	ENTRY MOVAB MOVAB MOVAB PUSHL	LIB\$GE	ND_PARSE, Save R2,R3,R4,R5 SPJ, SP SP), #0, #28, REQ_DESC ET_VM, REQ_DESC+16 REE_VM, REQ_DESC+20	0522 0547 0548 0549 0550
				00020 00023 00026 00020	PUSHAB RPW PUSHAB REQ CALLS #3,		W Q_DESC . DCLSENDPARSE				

Routine Base: \$CODE\$ + 01CD

; Routine Size: 46 bytes,

```
STACLINT
VO4-000
                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[DCL.SRC]STACLINT.B32:1
                                        GLOBAL ROUTINE clisnext_qual (name) =
     Move to the next command qualifier on the line.
                                            Inputs:
                                                     name = Address of entity name descriptor
                                           Outputs:
                                                      routine value = True if present, else false.
                                        BEGIN
                                        MAP
                                               name : REF BBLOCK:
                                        LOCAL
                                              req_desc : BBLOCK [clisc_reqdesc], ! Request descriptor block rpw : BBLOCK [clisc_workarea],! Result parse work area req_flags : BITVECTOR [32]; ! Request flags array
                                                                                                            ! Request flags array
                                       CH$FILL(0, cli$c_reqdesc, req_desc);
req_desc [int_b_type] = cli$k_nextqual;
req_desc [int_l_getvm] = lib$get_vm;
req_desc [int_l_freevm] = lib$free_vm;
                                                                                                                            Zero request descriptor block
                                                                                                                            Set request type
Set address of get vm routine
                                                                                                                            Set address of free vm routine
                                           Set entity name
                                        str$analyze_sdesc (.name, req_desc [int_w_entlen], req_desc [int_l_entaddr]);
RETURN (dcl$nextqual (req_desc, rpw, req_flags));! Call DCL utility
                                                                                                                                         CLI$NEXT_QUAL, Save R2,R3,R4,R5
-160(SP), SP
#0, (SP), #0, #28, REQ_DESC
                                                                                                                             .ENTRY
                                                                                                                                                                                                                       0552
                                                                             FF60
                                                                                         COOD ADOS ADS
                                                                                                                             MOVAR
                  10
                                          00
                                                                                                                                                                                                                       0577
                                                                                                                             MOVC5
                                                                                                                                         #85, REQ_DESC
LIB$GET_VM, REQ_DESC+16
LIB$FREE_VM, REQ_DESC+20
REQ_DESC+12
REQ_DESC+8
NAME
                                                                                                                                                                                                                       0578
0579
0580
0584
                                                                                                90
9E
9F
9F
DD
FB
DD
9F
                                                                  AD
                                                                                                                            MOVAB
                                                                                                     00013
0001B
                                                                       000000006
                                                                                                                            MOVAB
PUSHAB
PUSHAB
                                                                      000000006
                                                                                                                             PUSHL
                                                                                                                            CALLS
PUSHL
PUSHAB
                                               00000000G
                                                                                                                                          #3, STR$ANALYZE_SDESC
                                                                                                                                                                                                                       0585
                                                                                                                                          RPW
                                                                                                                                         REQ_DESC
#3. DCLSNEXTQUAL
                                                                                                                             PUSHAB
                                               000000006
                                                                                                                                                                                                                       0586
```

STACLINT

F 2 16-Sep-1984 00:32:58 VAX-11 Bliss-32 V4.0-742 Page 16 14-Sep-1984 12:15:40 DISK\$VMSMASTER:[DCL.SRCJSTACLINT.B32:1 (8)

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 01FB

STACLINT VAX-11 Bliss-32 V4.0-742 Page 17 DISK\$VMSMASTER:[DCL.SRC]STACLINT.B32;1 (9) : 395 : 396 1 END 0 ELUDOM .EXTRN LIBSSIGNAL PSECT SUMMARY Name Bytes Attributes 574 NOVEC, NOWRT, RD . EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) \$CODE\$ Library Statistics ----- Symbols -----Pages Processing File Total Loaded Percent Mapped Time _\$255\$DUA28:[SYSLIB]STARLET.L32:1 9776 17 581 00:01.0 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:STACLINT/OBJ=OBJ\$:STACLINT MSRC\$:STACLINT/UPDATE=(ENH\$:STACLINT) 574 code + 0 data bytes 00:11.0 00:38.7 Size: Run Time: 00:11.
Elapsed Time: 00:38.
Lines/CPU Min: 3207
Lexemes/CPU-Min: 19881
Memory Used: 95 pages
Compilation Complete

0074 AH-BT13A-SE

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